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### Corrigendum

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# A new fitting-function to describe the time evolution of a galaxy's gravitational potential (Corrigendum)

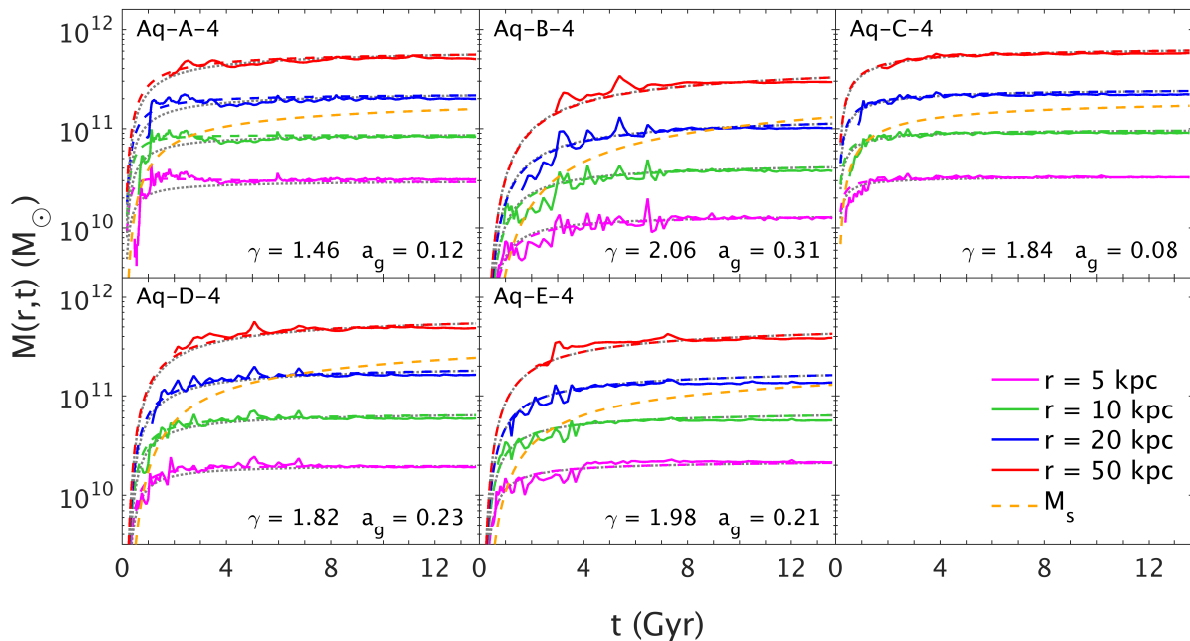
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## ABSTRACT

**Key words.** galaxies: evolution – dark matter – errata, addenda



**Fig. 1.** Like Fig. 4 of [Buist & Helmi \(2014\)](#) but with the corrected values for the growth rate  $a_g$ .

The quoted values of the growth rate  $a_g$  for the Aquarius haloes in Fig. 4 of [Buist & Helmi \(2014\)](#) are too small by a factor  $\log(10) \approx 2$ . This growth rate stems from fitting the evolution of the scale mass  $M_s(t)$  and scale radius  $r_s(t)$  with a model where they grow as an exponential in redshift  $z$

$$M_s(z) \propto \exp\{-2a_g z\}, \quad (1)$$

$$r_s(z) \propto \exp\left\{-2\left(a_g/\gamma\right)z\right\}, \quad (2)$$

such that  $M_s(t)$  and  $r_s(t)$  are related by a power law with coefficient  $\gamma$ . The quoted values of  $\gamma$  in the figure are correct. The curves shown in the figure are not affected, nor are any other figures in the article. A corrected version of Fig. 4 is shown in Fig. 1.

In the discussion of the results from the Milky-Way like Aquarius dark matter haloes we mentioned that the similarly defined growth rate  $a_c$  of  $M_{\text{vir}}(t)$  (see [Wechsler et al. 2002](#)) was in the range 0.1 to 0.2 for these haloes, which was below the 68% scatter of the median given by Wechsler et al. in their Fig. 8. With the correction above, we now find  $a_c$  in the range  $\approx 0.2$  to 0.4, which is still mostly below the median but within the 68% scatter.

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## References

- Buist, H. J. T., & Helmi, A. 2014, [A&A](#), **563**, A110  
 Wechsler, R. H., Bullock, J. S., Primack, J. R., Kravtsov, A. V., & Dekel, A. 2002, [ApJ](#), **568**, 52